

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference B4787AA-FL	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/FR 02/ 00951	International filing date (day/month/year) 18/03/2002	(Earliest) Priority Date (day/month/year) 19/12/2001
Applicant CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1 Basis of the report

- a With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 02/00951

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/54 C12N9/10 C12N15/63 C12P21/02 C12N1/21
A61K38/45 A61K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

SEQUENCE SEARCH, EPO-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 89 12386 A (CALGENE INC) 28 December 1989 (1989-12-28) cited in the application abstract; claims; figure 4 page 3, line 30 -page 4, line 20 --- -/--	1-26

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

20 January 2003

Date of mailing of the international search report

29/01/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/TR 02/00951

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE SWALL 'Online! 1 May 1999 (1999-05-01) BHATNAGAR ET AL.: "Dextranucrase" retrieved from EBI, accession no. Q9ZAR4 Database accession no. Q9ZAR4 XP002184801 the whole document</p>	4-8
A	<p>-& DATABASE EM_PRO 'Online! EMBL; 2 February 1999 (1999-02-02) BHATNAGAR ET AL.: "Leuconostoc mesenteroides dextranucrase (DEX) gene, complete cds" retrieved from EBI, accession no. U81374 Database accession no. U81374 XP002187315 the whole document</p>	9-13
A	<p>MONCHOIS V ET AL: "Cloning and sequencing of a gene coding for a novel dextranucrase from Leuconostoc mesenteroides NRRL B-1299 synthesizing only alpha(1-6) and alpha(1-3) linkages" GENE, vol. 182, no. 1-2, 5 December 1996 (1996-12-05), pages 23-32, XP004071926 BARKING, GB ISSN: 0378-1119 abstract; figure 3</p>	4-13
A	<p>WO 00 47727 A (MAX PLANCK GESELLSCHAFT ;KOSSMANN JENS (DE); KNUTH KAROLA (DE); QU) 17 August 2000 (2000-08-17) seq id nos 1, 2 abstract</p>	4-13
A	<p>EP 0 325 872 A (BIOEUROPE) 2 August 1989 (1989-08-02) cited in the application abstract</p>	1,25,26
A	<p>KIM D ET AL: "DEXTRANSUCRASE CONSTITUTIVE MUTANTS OF LEUCONOSTOC MESENTEROIDES B-1299" ENZYME AND MICROBIAL TECHNOLOGY, STONEHAM, MA, US, vol. 17, no. 12, 1995, pages 1050-1056, XP001051263 ISSN: 0141-0229 abstract page 1051, left-hand column, line 21 - line 34</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 02/00951

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 8912386	A	28-12-1989	AU	3852089 A		12-01-1990
			WO	8912386 A1		28-12-1989
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WO 0047727	A	17-08-2000	DE	19905069 A1		10-08-2000
			AU	3278700 A		29-08-2000
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			WO	0047727 A2		17-08-2000
			EP	1151085 A2		07-11-2001
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EP 0325872	A	02-08-1989	FR	2626583 A1		04-08-1989
			AT	79903 T		15-09-1992
			CA	1334657 A1		07-03-1995
			DE	3874119 D1		01-10-1992
			DE	3874119 T2		07-01-1993
			DK	179490 A		27-07-1990
			EP	0325872 A1		02-08-1989
			ES	2046323 T3		01-02-1994
			WO	8907148 A1		10-08-1989
			GR	3006125 T3		21-06-1993
			JP	2926421 B2		28-07-1999
			JP	3503238 T		25-07-1991
			US	5141858 A		25-08-1992